## **AMENDMENT TO THE CLAIMS:**

Please amend the claims as shown in the listing of the claims below.

## 1-432. (Previously cancelled)

- 433. (Currently amended) Nanoparticles having at least two types of oligonucleotides attached thereto, the oligonucleotides being present on a surface of the nanoparticles at a surface density of at least 10 picomoles/cm², wherein at least one type of oligonucleotides comprises recognition oligonucleotides, the recognition oligonucleotides comprising a spacer portion and a recognition portion, the recognition portion having a sequence complementary to at least one portion of the sequence of a nucleic acid or another oligonucleotide; and a second type of oligonucleotides comprises diluent oligonucleotides, wherein the spacer portion of the recognition oligonucleotides and diluent oligonucleotides have functional groups that are attached to the nanoparticles.
- 434. (Previously added) The nanoparticles of Claim 433 wherein the oligonucleotides are present on the surface of the nanoparticles at a surface density of at least 15-picomoles/cm<sup>2</sup>.
- 435. (Previously added) The nanoparticles of Claim 433 wherein the oligonucleotides are present on the surface of the nanoparticles at a surface density from about 15 picomoles/cm<sup>2</sup> to about 40 picomoles/cm<sup>2</sup>.
- 436. (Previously added) The nanoparticles of Claim 433 wherein the nanoparticles are metal nanoparticles or semiconductor nanoparticles.
- 437. (Previously added) The nanoparticles of Claim 436 wherein the nanoparticles are gold nanoparticles.

## 438. (Cancelled)

- 439. (Cancelled)
- 440. (Cancelled)
- 441. (Previously added) The nanoparticles of Claim 439 wherein the spacer portion comprises at least about 10 nucleotides.
- 442. (Previously added) The nanoparticles of Claim 441 wherein the spacer portion comprises from about 10 to about 30 nucleotides.
- 443. (Previously added) The nanoparticles of Claim 439 wherein the bases of the nucleotides of the spacer portion are all adenines, all thymines, all cytosines, all uracils or all guanines.

## 444. (Cancelled)

- 445. (Currently amended) The nanoparticles of Claim [444] 433 wherein the diluent oligonucleotides contain about the same number of nucleotides as are contained in the spacer portions of the recognition oligonucleotides.
- 446. (Previously added) The nanoparticles of Claim 445 wherein the sequence of the diluent oligonucleotides is the same as that of the spacer portions of the recognition oligonucleotides.
  - 447. (Cancelled)
  - 448. (Cancelled)
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